

**JLG Architects** 

### Ross McIntyre, Assoc. AIA

801 Washington Avenue North Unit 120 Minneapolis, MN 55401 p. 612.746.4260 d. 612.436.4009 c. 651.283.6031 rmcintyre@jlgarchitects.com

St Cloud VAHCS Proj. No. 656-14-246

JLG 13070B-5A Construct New IT Center

RE: Amendment No. 4

May 12, 2016

Amendment No.4 (05.12.2016)

Please issue the following changes to the contract documents as Amendment No. 4 (May 12, 2016) for the Construct New IT Center for Healthcare Management Expansion Project at the St. Cloud, MN VAHCSC (Project No. 656-14-246)

To:	CC:	
	$\boxtimes$	Justin Lappin
$\boxtimes$		St. Could VA Jorge Rivera-Roque
	ш	St. Could VA
	$\boxtimes$	Aaron Mueller
		Design Tree Engineering
Ш	$\bowtie$	file
		JLG Architects

# Sheet # Sheet Name Description of Change

#### **GENERAL:**

- FBO issued drawings, dated Dec-2014 shall be REPLACED by new drawing files dated Apr-2015.
- Specifications as issued on FBO are the correct files (Apr-2015 date on cover).
- See attached Doc Coord Memo.

#### **ARCHITECTURAL:**

• A101 Replace Demo Plan 1/A101 with drawing 1/A101rev. Update demolition Keynotes on sheet A101, with those found on drawing 1/A101rev.

### MECH/ELEC/TECH:

--- See attached Design Tree Engineering Amendment No4, dated 05.12.2016

### Attachments:

- 1/A101rev, dated 05.12.2016
- Doc Coord Memo, dated 05.12.2016
- Design Tree Engineering Amendment No 4 (13 pages total)



2015 Bid Period

Amend No 3

Amend No 4

Amend No 5(a)

Amend No 5(b)

Amend No 6 05.21.15

Amend No 6 ... same as -008 above

# JLG 13070B VA B108 New IT Data Center (VA Project No.: 656-14-246)

RE: Amendment Clarifications May 12, 2016

In an effort to clear up confusion regarding files posted to the FBO and	
amendment naming etc, the below chart is offered:	

2016 Bid Period FBO Files

VA263-16-R-0153-000 pre solicitation VA263-16-R-0153-001 solicitation VA263-16-R-0153-002 SOW

VA263-16-R-0153-003 sched brkdn sht VA263-16-R-0153-004 mn wage VA263-16-R-0153-005,006,007 specs

Amendment No6 VA263-16-R-0153-008 AMEND No6 combined (does NOT mean all previous

amendments are combined into this file)

VA263-16-R-0153-009 thru 017 drawing files (FILES TO BE REPLACED VIA AMEND No4 ... REPLACE w/ DOCUMENTS DATED APR-2015)

#### Amend No1 2016

VA263-16-R-0153-A00001000 Amend No1- site visit cancel, issue all

CC:

Richard Digatono VA – Contract Specialist

Jorge Rivera-Roque VA – COR

 $\boxtimes$ 

 $\boxtimes$ 

previous Q/A from previous bids

VA263-16-R-0153-A00001001 discrepancies in sheet index info

VA263-16-R-0153-A00001002 previous Amend No3, RFI Q/A 05.01.15 VA263-16-R-0153-A00001003 previous Amend No4, Contractor Q/A VA263-16-R-0153-A00001004 previous Amend No5a, 5 pgs Q/A VA263-16-R-0153-A00001005 previous Amend No5b, attC – solic Q/A VA263-16-R-0153-A00001006 previous Amend No6, JLG 12.10.15, DTE

10.12.15, includes Tech revision sheets (13 pages total)

**VA263-16-R-0153-A00001007** previous Amend No6, RF1005 05.21.15 Q/A **VA263-16-R-0153-A00001008** previous consolidated Q-A ... appears to be all previous Q/A combined into one file. Bidders to review all files to ensure this is the case.

# Amend No2 2016

**VA263-16-R-0153-A00002000** Amend No2 – site visit revised date, questions due by May 17<sup>th</sup>.

#### Amend No<sub>3</sub> 2016

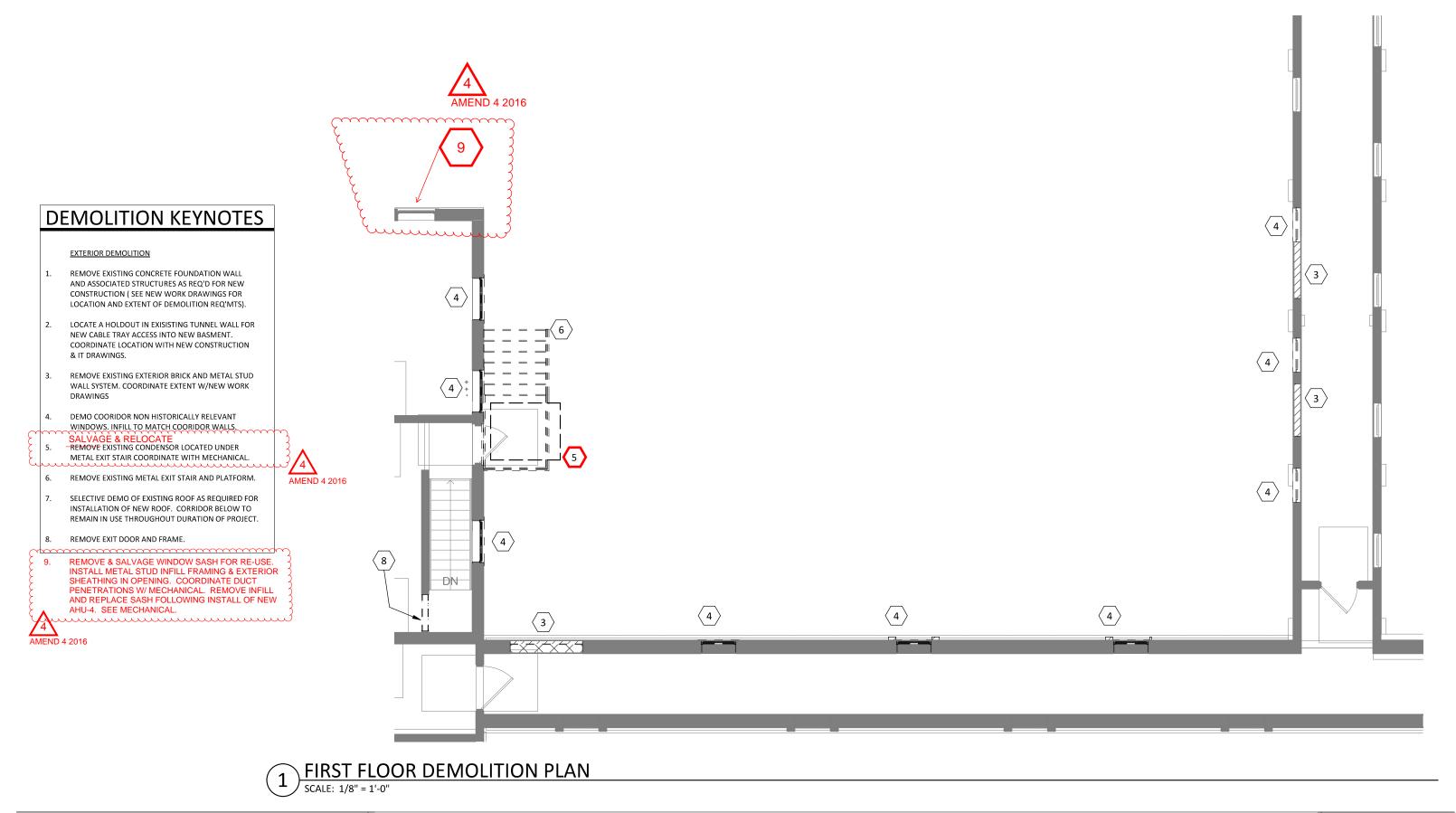
VA263-16-R-0153-A00003000 Amend No3

VA263-16-R-0153-A00003001 Amend No3 attach - splicing qualifications

- All files issued during this 2016 Bidding Period must be reviewed and taken into consideration when submitting bids.
- An amendment is planned for Thursday 05.12.2016 addressing some mechanical items, and various cabling plan notes etc.
   This 05.12.2016 Amendment will be Amend No4 2016. Any changes to already issued amendments will be cited by calling to change/revise previously issued amend noX, item noX, etc.

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- Posted drawing files 009 thru 017 to be replaced with drawing files dated Apr-2015, as part of Amend No4 2016.
- Any future additional amendments needed before bids are taken will follow as Amend No5 2016, etc.





ST. CLOUD VA HCS

CONSTRUCT NEW IT CENTER FOR HEALTH CARE TECHNOLOGY MANAGEMENT EXPANSION

ST. CLOUD, MN 56303



Alexandria Office 120 17th Avenue W. Alexandria, MN 56308 (320) 762-1290

**St. Cloud Office** 3339 West St. Germain, Suite 250 St. Cloud, MN 56301 (320) 217-5557

## AMENDMENT NO. 4 May 12, 2016

PROJECT: Construct New IT Center for St. Cloud VA Health Care System

This Amendment shall be added to and become a part of the original plans and specifications. All items shall be as originally specified or drawn, unless specifically amended by this or subsequent Amendments. Receipt of this Amendment must be acknowledged on bid form.

#### DRAWING CHANGES AND CLARIFICATIONS:

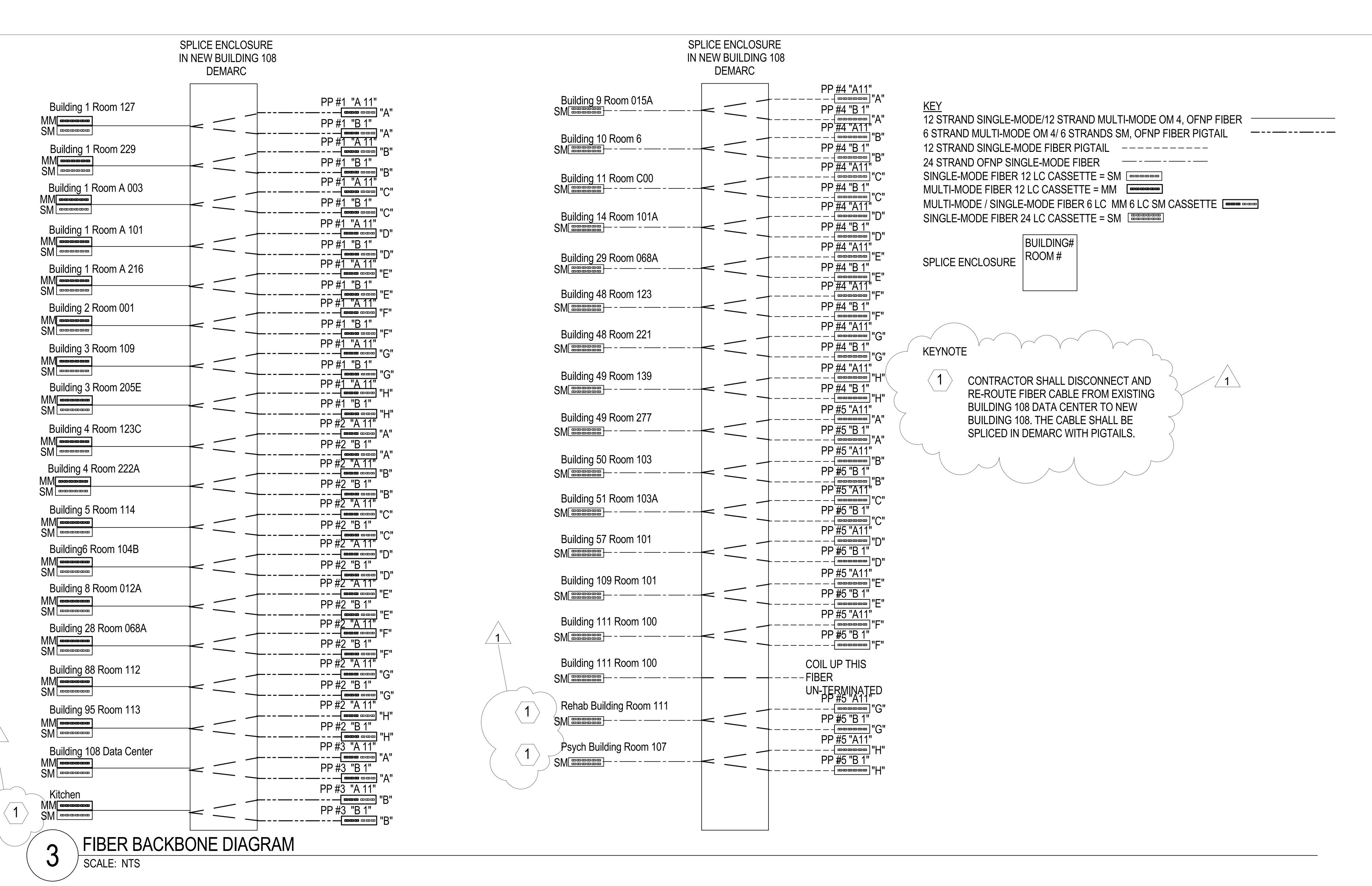
- 1. Change General Note #2 on drawings 2/CP3-1, to read as follows: "COORDINATE WITH OWNER LOCATION AND ELEVATION OF FIBER OPTIC PATCH PANELS IN EACH TELECOMMUNICATION ROOM"
- 2. Delete the following drawings: 3/CP1-0, 2/CP1-3, 2/CP2-2, 2/CP4-0, 2/CP4-1, 5/CP9-0.1.2, 6/CP9-0.1.2, 2/CP28-1, 2/CP28-1, 2/CP29-1, 2/CP29-2, 2/CP48-0, 2/CP49-0, 2/CP50-0, 2/CP50-2, 2/CP51-0, 2/CP51-2, 2/CP59-0.
- 3. Delete key note #1 from the following drawing: 2/CP1-0, 2/CP1-1, 3/CP1-1, 2/CP1-2, 3/CP1-2, 2/CP2-0, 2/CP2-1, 2/CP4-1, 2/CP4-2, 3/CP5-0.1, 2/CP8-0, 4/CP9-0.1.2, 5/CP9-0.1.2, 6/CP9-0.1.2, 2/CP10-0, 2/CP11-0, 4/CP14-0.1, 2/CP28-0, 2/CP48-1, 2/CP48-2, 2/CP49-1, 2/CP49-2, 2/CP50-1, 2/CP51-1, 2/CP59.109-1, 2/CP88-1, 2/CP95-1, 2/CP96-1.
- 4. Change Key Note #1 on drawings 2/CP3-1 and 2/CP3-2 to read as follows" TERMINATE NEW FIBER BACKBONE CABLES ON RACK MOUNTED PATCH PANEL PER FIBER OPTIC BACKBONE DIAGRAM".
- 5. Replace the detail 1/T102 with the detail T101.2 found in the Amendment 1 document VA263-16-R-0153-A00001006.
- 6. Replace drawing T502.1 issued in Amendment 1 document VA263-16-R-0153-A00001006 with the attached drawing T502.1.
- 7. Add the condensation lift station in the basement mechanical room shown on attached drawing E401.
- 8. Relocate the existing building 4 conference room split system condensing unit shown on attached drawing E402.
- 9. Add the condensation lift station CLP-1 to the motor schedule as shown on the attached drawing E901.
- 10. Revise a spare breaker in panelboard 4B-EQ to feed CLP-1 as shown on the attached drawing E902.
- 11. Drawing M201, M202, M402, M701, and M801: See attached revisions.

MECHANICAL ELECTRICAL STRUCTURAL CIVIL LAND SURVEYING

May 12, 2016

## **ATTACHMENTS:**

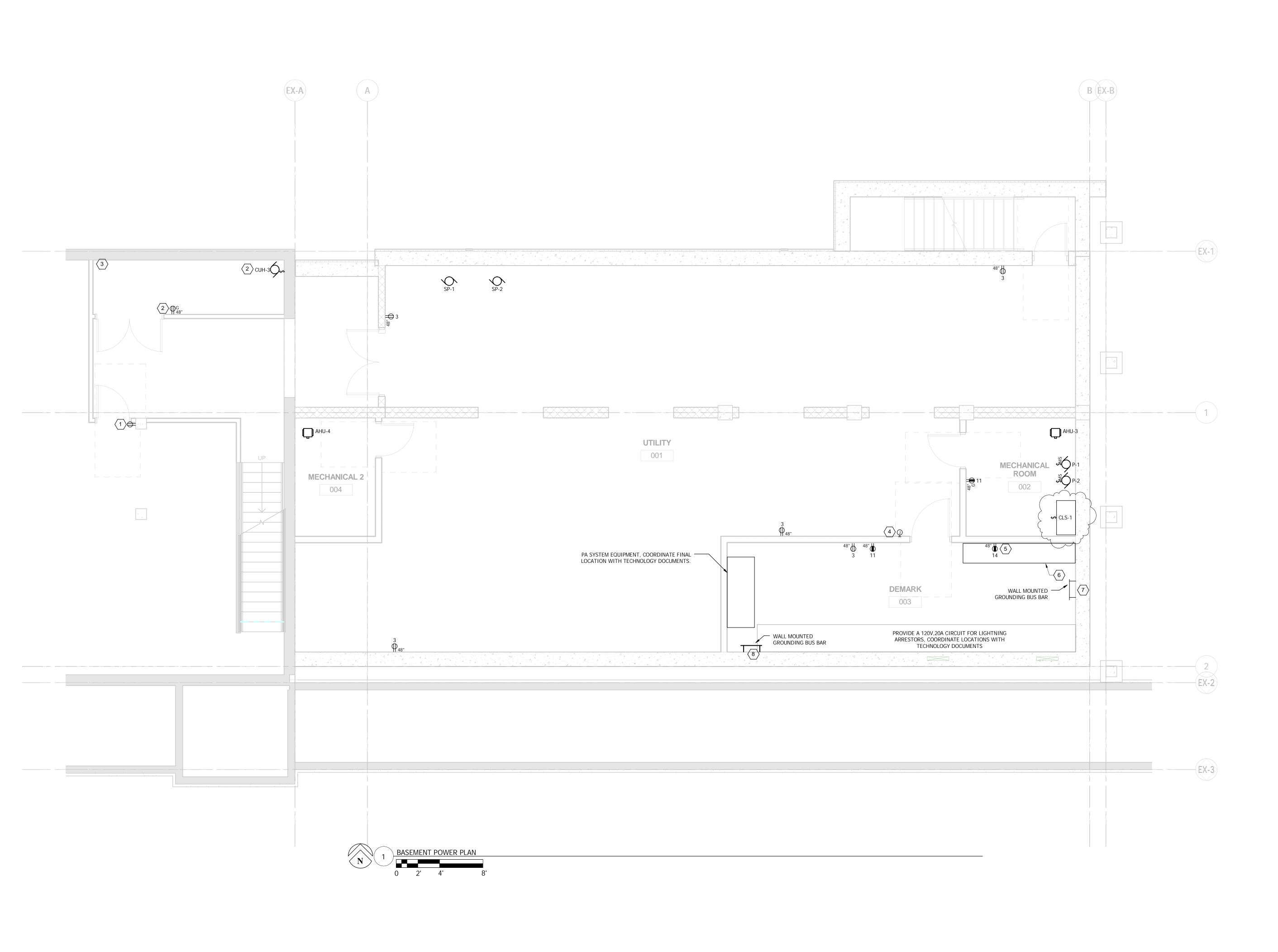
- 1. Drawing M201
- 2. Drawing M202
- 3. Drawing M402
- 4. Drawing M701
- 5. Drawing M801
- 6. Drawing E401
- 7. Drawing E402
- 8. Drawing E901
- 9. Drawing E902
- 10. Drawing CP4.1
- 11. Drawing T502.1





656-14-246 ISSUED FOR: AMENDMENT #4

FROM SHEET NO.



1 2 5

one eighth inch = one foot

0 4 8 16

AMENDMENT #4

VA FORM 08-6231

# 1. REMOVE EXISTING RECEPTACLE.

- 2. CIRCUIT NEW DEVICE TO EXISTING RECEPTACLE CIRCUIT IN BASEMENT OF BUILDING 4.
- 3. COORDINATE WALL MOUNTED MECHANICAL EQUIPMENT MODIFICATIONS NEEDED FOR COORDINATION OF NEW WALL WITH THE MECHANICAL DOCUMENTS.
- 4. DOUBLE GANG JUNCTION BOX MOUNTED AT DOOR HANDLE HEIGHT FOR CARD READER. PROVIDE CONDUIT STUBBED UP ABOVE ACCESIBLE CEILING FOR INSTALLATION OF CABLING UNDER DIVISION 28. COORDINATE SIZE OF JUNCTION BOX REQUIRED FOR THE KEYPAD PROVIDED UNDER DIVISION 28 PRIOR TO INSTALLATION. COORDINATE ADDITIONAL CONDUIT REQUIREMENTS WITH DIVISION 28.
- 5. EMERGENCY RECEPTACLE DEDICATED FOR CENTURYLINK EQUIPMENT. COORDINATE FINAL LOCATION WITH CENTURYLINK AND THE COR.
- 6. SPACE DEDICATED FOR CENTURYLINK VOICE/DATA SERVICE EQUIPMENT. CONTRACTOR SHALL INCLUDE ALL CENTURYLINK WORK IN THE BASEBID PRICE. CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH CENTURYLINK AND ESTABLISHING THE NEW SERVICE AT THE BUILDING. REFER TO TECHNOLOGY DOCUMENTS FOR ADDITIONAL INFORMATION.
- 7. GROUNDING BUS BAR DEDICATED FOR CENTURYLINK EQUIPMENT. COORDINATE FINAL LOCATION WITH CENTURYLINK. PROVIDE A 1/0AWG GROUNDING CONDUCTOR TO SERVICE ENTRANCE EQUIPMENT.
- 8. GROUNDING BUS BAR DEDICATED FOR LIGHTNING ARRESTORS AND DEMARK EQUIPMENT. COORDINATE FINAL LOCATION WITH TECHNOLOGY EQUIPMENT SUPPLIER. PROVIDE A 1/0AWG GROUNDING CONDUCTOR TO SERVICE ENTRANCE EQUIPMENT.

1. PROVIDE A 208V/20A CIRCUIT TO THE PA EQUIPMENT. COORDINATE FINAL LOCATION WITH THE TECHNOLOGY DOCUMENTS AND THE COR. CONTRACTOR SHALL FEILD VERIFY VOLTAGE AND RATING OF EXISTING PA EQUIPMENT PRIOR TO ROUGH-INS. REFER TO TECHNOLOGOY DOCUMENTS FOR ADDITIONAL INFORMATION.

# CONSTRUCTION DOCUMENTS 100%





STAMP/SEAL:	
I HEREBY CERTIFY THAT TI SPECIFICATION, OR REPOR BY ME OR UNDER MY DIRE THAT I AM A DULY LICENSE ENGINEER UNDER THE LAW MIMIESOTA.	RT WAS PREPARED CT SUPERVISION AND D PROFESSIONAL
Aaron R. Mueller, PE	REG. NO.
DATE: 12/03/14	

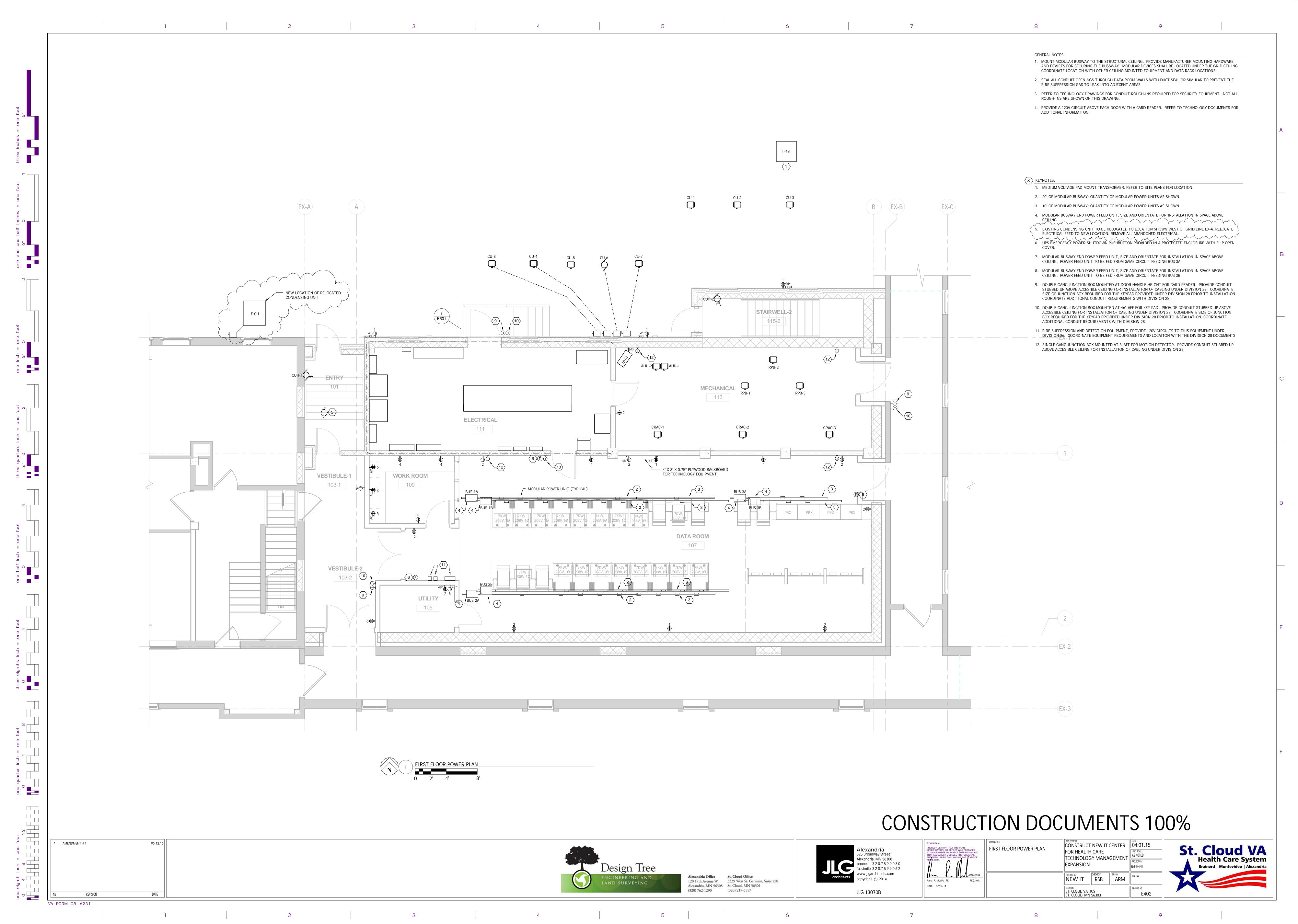
BASEMENT POWER PLAN

PROJECT TITLE
CONSTRUCT NEW IT CENTER
FOR HEALTH CARE
TECHNOLOGY MANAGEMENT

DATE
04.01.15

PROJECT TOTALE
AS NOTED
PROJECT TOTALE
PROJECT TOTALE
PROJECT TOTALE
PROJECT TOTALE
PROJECT TOTALE
PROJECT TOTALE
PROJECT TOTALE EXPANSION BUILDING NO NEW IT RSB DRAWN ARM ST. CLOUD VA HCS ST. CLOUD, MN 56303 E401





						LUMINAIRE SCHEDULE		
ID TAG	TYPE	INPUT LOAD	MOUNTING	LIGHT SOURCE	VOLTAGE/BALLAST	DESCRIPTION	COLOR	APPROVED MANUFACTURER
A	2X4 ARCHITECTURAL LED TROFFER	40 VA	RECESSED	LED, 4000 MIN. DELIVERED LUMENS, 3,500K, CRI OF 90+	MULTIVOLT/ELECTRONIC DIMIN	20-GAUGE STEEL HOUSING, FIELD REPLACEABLE LIGHT ENGINE, POWER SUPPLY, THERMAL MANAGEMENT, AND POSTICAL MIXING COMPONENTS, ONE-PIOECE LOWER REFLECTOR WITH A TEXTURED HIGH REFLECTANCE WHITE POLYESTER POWDER COATING, DIFFUSING LENS INTEGRATED WITH UPWARD-FACING LED STRIP TO ELIMINATE DIRECT VIEW OF LEDS WITH LOWER REFLECTOR.	WHITE	CRE24 SERIES, OR EQUAL
3	6" DOWNLIGHT	25 VA	RECESSED	LED 1700 LUMENS	120V	OPEN CLEAR		GOTHAM LIGHTING EVO SERIES, OR EQUAL
C	EXTERIOR WALL	27 VA	WALL	LED (1) 21 LED LIGHT/BAR 80CRI	120V	TWO PIECE, DIE CAST ALUMINUM HOUSING AND REMOVABLE HINGED DOOR FRAME, TYPE 4 DIST., BRONZE IN COLOR, INTEGRAL PHOTOCELL	, BRONZE	COOPER ISW IMPACT ELITE SMALL WEDGE SERIES, OR EQUAL
D1	4' LED STRIPLIGHT	43 VA	CHAIN HUNG	LED, 3000 DELIVERED LUMENS, 4000K	120V/ELECTRONIC	CODE-GAUGE COLD ROLLED STEEL HOUSING CHANNEL, SNAP ON/OFF LENS DIFFUSER, TOOLLESS CHANNEL COVER REMOVAL	WHITE	LITHONIA ZL2N SERIES, OR EQUAL
02	4' LED STRIPLIGHT	43 VA	SURFACE MOUNT	LED, 3000 DELIVERED LUMENS, 4000K	120V/ELECTRONIC	CODE-GAUGE COLD ROLLED STEEL HOUSING CHANNEL, SNAP ON/OFF LENS DIFFUSER, TOOLLESS CHANNEL COVER REMOVAL	WHITE	LITHONIA ZL2N SERIES, OR EQUAL
2	EXIT SIGN W/EMERGENCY LIGHTING	6 VA	UNIVERSAL	LED	120V	TERMOPLASTIC IMPACT RESISTANT, SCRATCH RESISTANT, CORROSION RESISTANT HOUSING, LED LAMP HEADS	WHITE W/RED LETTERING	LITHONIA LHQM SERIES, SURE-LITE APCH7R, OR EQUAL
EX1	EXIT SIGN	6 VA	UNIVERSAL	LED	120V	DIE CAST, BRUSHED ALUMINUM FACE, BLACK HOUSING, RED LETTERS, FACES AND ARROWS AS SHOWN ON PLANS	BRUSHED ALUMINUM FACE, BLACK HOUSING	LITHONIA LE SERIES, OR EQUAL
X2	EXIT SIGN W/EMERGENCY LIGHTING	6 VA	UNIVERSAL	LED	120V	TERMOPLASTIC IMPACT RESISTANT, SCRATCH RESISTANT, CORROSION RESISTANT HOUSING, LED LAMP HEADS	WHITE W/RED LETTERING	LITHONIA LHQM SERIES, SURE-LITE APCH7R, OR EQUAL
X3	EXIT SIGN	5 VA	UNIVERSAL	LED	120V	TERMOPLASTIC IMPACT RESISTANT, SCRATCH RESISTANT, CORROSION RESISTANT HOUSING	WHITE HOUSING, RED LETTERING	LITHONIA LQM SERIES, OR EQUAL
	LED STAIR LIGHT	24 VA	SURFACE/WALL	LED; 2505 DELIVERED LUMENS, 3500K	120V/ELECTRONIC	INTEGRAL OCCUPANY SENSOR TO DIM LIGHT TO 25% ON WHEN UNOCCUPIED AND 100% ON WHEN OCCUPIED, HIGH IMPACT ACRYLIC DIFFUSER, CRESCENT-SHAPE LINEAR FACETED REFRACTOR SYSTEM, CODE GAUGE ROLLED STEEL HOUSING	WHITE POLYESTER POWDER COAT	R LITHONIA WL SERIES, OR EQUAL

								МОТО	R AND EQUIPMEN	Γ SCHEDULE						
			EQUIP	MENT DATA					DISC	ONNECT			STARTER DATA			
EQUIPMENT ID	LOCATION	HP	FLA	KW	MOP	VOLTS	PHASE	PROVIDED BY	AMPS/POLES	FUSES	LOCATION	PROVIDED BY	TYPE/SIZE	LOCATION	FEEDER SIZE	NOTES
.C-1	ELECTRICAL RM 111		19.8		25	480	3								0.75"C-3#10,1#10G	
AHU-1	MECHANICAL RM 113		1.0		15	480	3	MECH							0.75"C-3#12,1#12G	
AHU-2	MECHANICAL RM 113		1		15	480	3	MECH							0.75"C-3#12,1#12G	
AHU-3	MECH ROOM 002		1.0		15	48QV	3	MECH				MECH			0.75"C-3#/12,1*12G	
AHVJ-4	MECH RM 2 004	γ ,	1.75		15 Y	480V	3/~ ~~	MECH Y	~ <u>~</u>		- <del></del>	MÉCHY	Y	- <del></del>	0.75"C-3#12,1#12G	\
CLS-1	MECHANICAL ROOM 002					120V	1	ELEC	M		AT UNIT				0.75"C-2#12,1#12G	
CRAC-1	MECHANIGAL RM 3	,	59.6 人	.::.	80 ,	480 <sub></sub>	3 , 1	MEGH . A		<sub>λ</sub>	AT UNIT,	MECH , , A		· / ~/	1"C-3#3\1#8G	
CRAC-2	MECHANICAL RM 3		59.6		80	480	3	MECH	7		AT UNIT	MECH			1"C-3#3,1#8G	
CRAC-3	MECHANICAL RM 3		59.6		80	480	3	MECH			AT UNIT	MECH			1"C-3#3,1#8G	
CU-1	EXTERIOR		5.6		15	480V	3	MECH			AT UNIT	MECH			0.75"C-3#12,1#12G	
CU-2	EXTERIOR		5.6		15	480V	3	MECH			AT UNIT	MECH			0.75"C-3#12,1#12G	
CU-3	EXTERIOR		4656		15	480V	3	MECH			AT UNIT	MECH			0.75"C-3#12,1#12G	
CU-4	EXTERIOR		11.6		20	480	3	ELEC	30A/3P		NEAR UNIT	MECH			0.75"C-3#12,1#12G	
CU-5	EXTERIOR		11.7		20	480	3	MECH				MECH			0.75"C-3#12,1#12G	
CU-6	EXTERIOR		12.4		20	208V	1	ELEC	30A/3P		AT UNIT	MECH			0.75"C-2#12,1#12G	
CU-7	EXTERIOR		6		15	480V	3	ELEC	30A/3P		AT UNIT	MECH			0.75"C-3#12,1#12G	
CU-8	EXTERIOR		11.6		20	480	3	ELEC	30A/3P		AT UNIT	MECH			0.75"C-3#12,1#12G	
CUH-1	ENTRY 101				15	120V	1	ELEC			AT UNIT	MECH			0.75"C-2#12,1#12G	
CUH-2	STAIRWELL-2 RM 115-2				15	120V	1	ELEC			AT UNIT	MECH			0.75"C-2#12,1#12G	
CUH-3	BASEMENT BUILDLING 4				15	120V	1	ELEC			AT UNIT	MECH			0.75"C-2#12,1#12G	
P-1	MECHANICAL ROOM 002				15A	120V	1					ELEC	MS	AT UNIT	0.75"C-2#12,1#12G	
P-2	MECHANICAL ROOM 002				15A	120V	1					ELEC	MS	AT UNIT	0.75"C-2#12,1#12G	
RPB-1	MECHANICAL RM 3		7.0		15	480V	3	MECH			AT UNIT	MECH			0.75"C-3#12,1#12G	
RPB-2	MECHANICAL RM 3		7.0		15	480V	3	MECH			AT UNIT	MECH			0.75"C-3#12,1#12G	
RPB-3	MECHANICAL RM 3		7.0		15	480V	3	MECH			AT UNIT	MECH			0.75"C-3#12,1#12G	
SP-1	UTILITY RM 001				15A	120V	1	MECH			AT UNIT	MECH		AT UNIT	0.75"C-2#12,1#12G	
SP-2	UTILITY RM 001				15A	120V	1	MECH			AT UNIT	MECH		AT UNIT	0.75"C-2#12,1#12G	
JH-1	MECHANICAL RM 3			.2		120	1	ELEC			NEAR UNIT				0.75"C-2#12,1#12G	
NOTES:			•		•		•	•		•	•		LEGEND:			
1													MS = MANU, VFD = VARI, SSRV = SOL FVNR = FULI M = MOTOR MANUF = PR MECH = PRC	VOLTAGE NON-F RATED SWITCH OVIDE FUSES PE	ER DRIVE ED VOLTAGE STARTER REVERSING STARTER R MANUFACTURER RECOMM MENT SUPPLIER OR WITH E	

1 2 5

	LOCATION: ELECTRICAL 111 ENCLOSURE: NEMA 1 MOUNTING: FREE STANDING	VOTLS: 480 PHASES: 3 WIRES: 4	)Y/277			BUSS RATING: 1000 A  MAINS TYPE: BREAKER  MAINS RATING: 800 A
СКТ	DESCRIPTIO	ON PO	DLES	RATING	LOAD	NOTES
1	4B-ESDP		3	400 A	248,145	100% RATED BREAKER
2	4B-EQDP		3	400 A	226,854	100% RATED BREAKER
3	T-4B-DP		3	20 A	10,871	
4	CU-4		3	20 A	9,650	
5	CU-7		3	15 A	5,000	
6	CU-8		3	20 A	9,650	
7	AHU-1		3	15 A	1,000	
8	AHU-2		3	15 A	1,000	
9	AHU-3		3	20 A	1,000	
10	AHU-4		3	15 A	1,500	
11	SPARE		3	100 A		
12	SPARE		3	20 A		
13						
14						
15						
16						
17						
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35						
36						
	I		OTAL CO	NNECTED LOAD	514670	TOTAL CALCULATED LOAD: 620 A
1. 2.	100% RATED MAIN BREAKER PROVIDE INTEGRAL SPD			1		

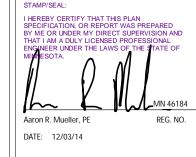
	D	ANEI BOADD	NAME:	4B-L1					CIRCUIT	BREAKER	: X		MAIN RATING: 100A				
MOUNTING   SUPFACE     No			LOCATION:	ELECTRICAL	ROOM				MAIN L	JGS ONLY	:	VOLTAGE: 208Y/120					
1 R EXTERIOR		SCHEDULL	MOUNTING:	SURFACE						WIRES	: 4	PHASE: 3					
1 R EXTERIOR											1						
1 R EXTERIOR	CKT	CIRCUIT DES	SCRIPTION	TRIP	POLES		Ą		В		С	POLES	TRIP	CIRCUIT DESCRIPTION	CK		
Second Color	1			20 A		540	1260						20 A		2		
7	3	R. RMS 001, 002, 003		20 A	1			900	540			1	20 A	R. RM 16	4		
9	5	L. RMS 105, 111, 113		20 A	1					381	540	1	20 A	R. RM. 17	6		
CU-6	7	L. RMS 001, 002, 003, 023		20 A	1	645	540					1	20 A	R. RM 111, 113	8		
11   120   1	9	OU (		00.4				1290	1500			1	20 A	DEMARC RM LIGHTNING ARRESTORS	10		
15   SPARE	11	CU-6		20 A	2					1290	0	1	20 A	SPARE	12		
17 SPARE	13	CABINET UNIT HEATERS CUH	I-1, CUH-2	20 A	1	1000	0					1	20 A	SPARE	14		
19 SPARE	15	SPARE		20 A	1			0	0			1	20 A	SPARE	16		
21 SPARE	17	SPARE		20 A	1					0	0	1	20 A	SPARE	18		
23 SPARE	19	SPARE		20 A	1	0	0					1	20 A	SPARE	20		
SPARE	21	SPARE		20 A	1			0	0			1	20 A	SPARE	2:		
27   SPARE	23	SPARE		20 A	1					0	0	1	20 A	SPARE	24		
29   SPARE	25	SPARE		20 A	1	0	0					1	20 A	SPARE	20		
31   SPARE	27	SPARE		20 A	1			0	0			1	20 A	SPARE	28		
33   SPACE	29	SPARE		20 A	1					0	0	1	20 A	SPARE	30		
35   SPACE	31	SPARE		20 A	1	0	0					1	20 A	SPARE	3:		
37   SPACE	33	SPACE						0	0					SPACE	3.		
39   SPACE	35	SPACE								0	0			SPACE	36		
SPACE	37	SPACE				0	0							SPACE	38		
TOTAL CONNECTED LOAD 10425 VA TOTAL CALCULATED DEMAND 10871 TOTAL CALCULATED A  SENERAL NOTES:  1.	39	SPACE						0	0					SPACE	40		
ENERAL NOTES:  1. * GFCI RATED BREAKER  2. ** PROVIDE HACR RATED BREAKER	41	SPACE								0	0			SPACE	42		
1. * GFCI RATED BREAKER 2. ** PROVIDE HACR RATED BREAKER			TOTAL CONNECTED LC	AD 1042	25 VA				TOTAL CA	LCULATED	DEMAND	108	371	TOTAL CALCULATED AMPS	30		
1. * GFCI RATED BREAKER 2. ** PROVIDE HACR RATED BREAKER	NERAL	NOTES:							KEY NOT	 ES:							
2. ** PROVIDE HACR RATED BREAKER												<b>/</b> FD					
	1.								*	GECT RAT	I FD RKFYI	KEK					
3. *** ISOLATED GROUND CIRCUIT	2.								**	PROVIDE	HACR RA	TED BREA	KER				
	3.								***	ISOLATE	D GROUNI	D CIRCUIT					

# CONSTRUCTION DOCUMENTS 100%









PROJECT TITLE
CONSTRUCT NEW IT CENTER
FOR HEALTH CARE
TECHNOLOGY MANAGEMENT
EXPANSION

DATE
O4.01.15

PLOT SCALE
AS NOTED

PROJECT NO.
656-13-240 DRAWING TITLE

ELECTRICAL SCHEDULES BUILDING NO NEW IT RSB DRAWN ARM ST. CLOUD VA HCS ST. CLOUD, MN 56303



E901

AMENDMENT #4

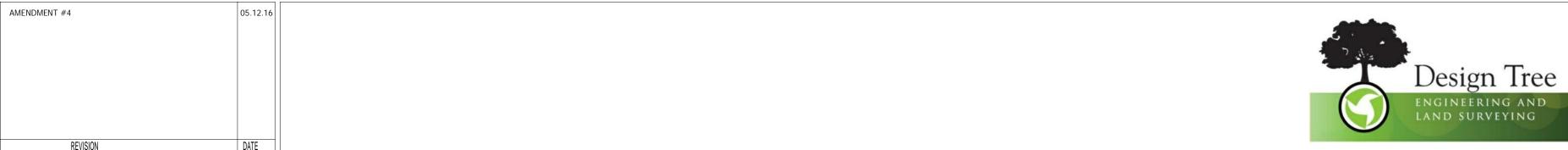
_	41151 50455	NAME:	4B-ESDP					CIRCUIT	BREAKER:	X			MAIN RATING:	400		
	ANELBOARD	LOCATION:	ELECTRICAL	RM 111				MAIN L	JGS ONLY:				VOLTAGE:	SE: 480Y/277		
	SCHEDULE	MOUNTING:	SURFACE					WIRES: 4		4			PHASE:	3		
CKT	CIRCUIT DE	SCRIPTION	TRIP	POLES		A		3	C	:	POLES	TRIP	C	IRCUIT DESCRIPTION	СКТ	
1	OINGOTT DE			1 0220	81200	2147					1 0220			Moori Beogni Fron	2	
3	UPS AC RECTIFIER INPUT		350 A	3			81200	1484			3	25 A	T-4B-ES		4	
5									81200	2000					6	
7					0	0									8	
9	SPARE		20 A	3			0	0			3	20 A	SPARE		10	
11									0	0					12	
13	SPACE				0	0							SPACE		14	
15	SPACE						0	0					SPACE		16	
17	SPACE								0	0			SPACE		18	
19	SPACE				0	0							SPACE		20	
21	SPACE						0	0					SPACE		22	
23	SPACE								0	0			SPACE		24	
25	SPACE				0	0							SPACE		26	
27	SPACE						0	0					SPACE		28	
29	SPACE								0	0			SPACE		30	
		TOTAL CONNECTED LO	OAD 24923	31 VA			-	TOTAL CA	LCULATED	DEMAND	248	145		TOTAL CALCULATED AMPS	298	
NERAL	NOTES:							KEY NOT	ES:							
1.	PROVIDE INTEGRAL SPD							*	GFCI RAT	ED BREAK	ŒR					
2.	100% RATED MAIN BREAKER	2						**	PROVIDE	HACR RA	TED BREA	KER				
3.								***	ISOLATED	GROUNI	CIRCUIT					
-																

		NAME: 4	B-ES					CIRCUIT	BREAKER:	Х			MAIN RATING:	60	
	ANELBOARD	LOCATION: E	LECTRICAL	. RM 111				MAIN L	JGS ONLY:				VOLTAGE:	208Y/120	
	SCHEDULE	MOUNTING: S	URFACE				WIRES: 4			4	PHASI			3	
										1					
CKT	CIRCUIT D	ESCRIPTION	TRIP	POLES		Ą		В	C	`	POLES	TRIP	C	IRCUIT DESCRIPTION	СКТ
1	L. RMS 001		20 A	1	356	291					1	20 A	L. RM 107		2
3	L. RMS 101,103-2, 111, 113,	115-2	20 A	1			403	81			1	20 A	L. EXTERIOR		4
5	CLEAN AGENT CONTROL PAI	NEL	20 A	1					1000	500	1	20 A	JOHNSON CONTRO	DLS PANEL	6
7	EARLY WARNING AIR SAMPL	ING CONTROL PANEL 1	20 A	1	1000	0					1	20 A	SPARE		8
9	EARLY WARNING AIR SAMPL	ING CONTROL PANEL 1	20 A	1			1000	0			1	20 A	SPARE		10
11	DA OVOTENA FOLUBRAGAIT		00.4						500	0	1	20 A	SPARE		12
13	PA SYSTEM EQUIPMENT		20 A	2	500	0					1	20 A	SPARE		14
15	SPARE		20 A	1			0	0			1	20 A	SPARE		16
17	SPARE		20 A	1					0	0	1	20 A	SPARE		18
19	SPARE		20 A	1	0	0					1	20 A	SPARE		20
21	SPARE		20 A	1			0	0			1	20 A	SPARE		22
23	SPARE		20 A	1					0	0	1	20 A	SPARE		24
25	SPARE		20 A	1	0	0					1	20 A	SPARE		26
27	SPARE		20 A	1			0	0			1	20 A	SPARE		28
29	SPARE		20 A	1					0	0	1	20 A	SPARE		30
		TOTAL CONNECTED LOA	D 563	31 VA				TOTAL CA	LCULATED	DEMAND	) 45	545		TOTAL CALCULATED AMPS	5 13
GENERAI	L NOTES:		,					KEY NOT	ES:						
1.								^	GFCI RAT	ED BREA	KER				
2.								**	PROVIDE	HACR RA	TED BREA	KER			
3.								***	ISOLATED	GROUN	D CIRCUIT	-			

		NAME:	4B-EQDP					CIRCUIT	BREAKER:	x			MAIN RATING:	400	
P.	ANELBOARD		ELECTRICAL	DM 111					GS ONLY:				VOLTAGE:		
	SCHEDULE			KIVI I I I				IVIATIV LU							
		MOUNTING:	G: SURFACE				WIRES: 4		4			PHASE:	3		
CKT	CIRCUIT DE	SCRIPTION	TRIP	POLES	A			3	C	,	POLES	TRIP	CI	RCUIT DESCRIPTION	CKT
1					0	16667									2
3	SPARE		20 A	3			0	16667			3	80 A	CRAC-1		4
5									0	16667					6
7					1940	16667									8
9	RPB-1		15 A	3			1940	16667			3	80 A	CRAC-2		10
11					10.10	1///7			1940	16667					12
13	DDD 2		15.0	2	1940	16667	1040	1///7			2	00.4	CDAC 2	-	14
15 17	RPB-2		15 A	3			1940	16667	1940	16667	3	80 A	CRAC-3		16 18
19					1940	1552			1940	10007					20
21	RPB-3		15 A	3	1740	1002	1940	1552			3	15 A	CU-1		22
23									1940	1552					24
25					5487	1552									26
27	AC-1		25 A	3			5487	1552			3	15 A	CU-2		28
29									5487	1552					30
31					0	1552									32
33	SPARE		15 A	3			0	1552			3	15 A	CU-3		34
35									0	1552					36
37					4700	3215									38
39	T-4B-EQ		20 A	3			1920	3215	5000	2015	3	20 A	CU-5		40
41									5320	3215					42
		TOTAL CONNECTED LC	AD 2287	94 VA			-	TOTAL CAL	CULATED	DEMAND	226	714		TOTAL CALCULATED AMPS	273
GENERAL	NOTES:							KEY NOTE	<u>:S:</u>						
1.	PROVIDE INTEGRAL SPD							*	GFCI RAT	ED BREAK	ŒR				
	100% RATED MAIN BREAKER	2							PROVIDE			KER			
3.								***	ISOLATED	GROUNE	CIRCUIT				

		NAME:	4B-EQ					CIRCUIT	BREAKER:	Х			MAIN RATING:	200	
	ANELBOARD	LOCATION:	ELECTRICAL	ELECTRICAL RM 111									VOLTAGE:	208Y/120	
	SCHEDULE	MOUNTING:	SURFACE					WIRES: 4			4 PHASE:			3	
		WOONTHVO.	JONI ACL						WINLS.	-			THAL.		
CKT	CIRCUIT DE	SCRIPTION	TRIP	POLES	P	L	E	3	C	)	POLES	TRIP	CI	IRCUIT DESCRIPTION	CKT
1	R. RM 6		20 A	1	720	360					1	20 A	R. RM 113,002, 105	5	2
3	R. RM. 16		20 A	1			360	360			1	20 A	R. RM 4		4
5	MECHANICAL ROOM 002 HW	AND GLYCOL PUMPS	20 A	1					1000	360	1	20 A	R. RM 16		6
7	SUMP PUMP SP-1		20 A	1	1000	360					1	20 A	R. RM. 16		8
9	SUMP PUMP SP-1		20 A	1			1000	200			1	20 A	UH-1		10
11	R. RMS 002, 003, 004		20 A	1					540	440	1	20 A	L. RMS 107, 109		12
_13	DOOR ELECTRIC STRIKES_		20 A	1_	500	180					1	20 A	RM 003 CENTURYL	INK EQUIPMENT	14
15	SECURITYCONTROL		20 A	1			500	8	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	`	1	20 A	SPARE		16
17	CLS-1		20 A	1					900	20	1	20 A	SPARE		18
1191	SPARE // // /		~\ 20.A\	~1\	Mon	\ <del>0</del> \				,	1	20 A	SPARE		20
21	SPARE		20 A	1			0	2080				05.4	DO DOLLIED CONTROL	OTED DESTIGIES 4	22
23	SPARE		20 A	1					0	2080	2	25 A	DC POWER CONVE	RTER RECTIFIER 1	24
25	SPARE		20 A	1	0	2080					_				26
27	SPARE		20 A	1			0	2080			2	25 A	DC POWER CONVE	RTER RECTIFIER 1	28
29	SPARE		20 A	1					0	2080	_				30
31	SPARE		20 A	1	0	2080					2	25 A	DC POWER CONVE	RTER RECTIFIER 1	32
33	SPARE		20 A	1			0	0			1	20 A	SPARE		34
35	SPARE		20 A	1					0	0	1	20 A	SPARE		36
37	SPARE		20 A	1	0	0					1	20 A	SPARE		38
39	SPARE		20 A	1			0	0			1	20 A	SPARE		40
41	SPARE		20 A	1					0	0	1	20 A	SPARE		42
		TOTAL CONNECTED LO	)AD 2126	0 VA			ī	OTAL CAL	CULATED	DEMAND	193	320		TOTAL CALCULATED AMPS	53
GENERAL	NOTES:		,					KEY NOTE	<u>S:</u>				1		
1.								*	GFCI RAT	ED BREAK	ŒR				
2.								**	PROVIDE	HACR RA	TED BREA	KER			
3.										) GROUNE					

# CONSTRUCTION DOCUMENTS 100%



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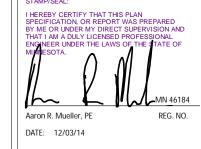
one eighth inch = one foot

0 4 8 16

VA FORM 08-6231







PROJECT TITLE
CONSTRUCT NEW IT CENTER
FOR HEALTH CARE
TECHNOLOGY MANAGEMENT
EXPANSION

DATE
O4.01.15

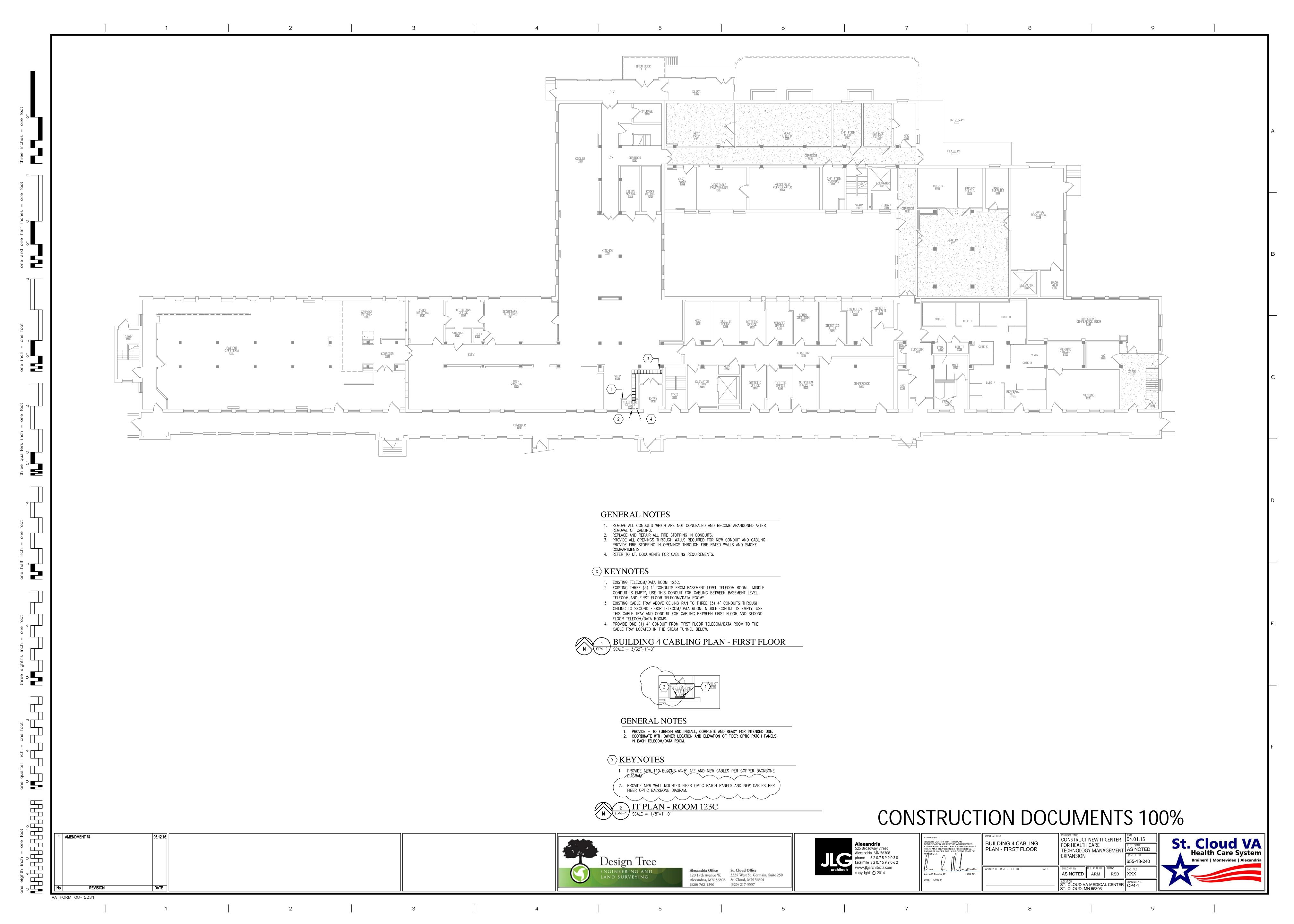
PLOT SCALE
AS NOTED

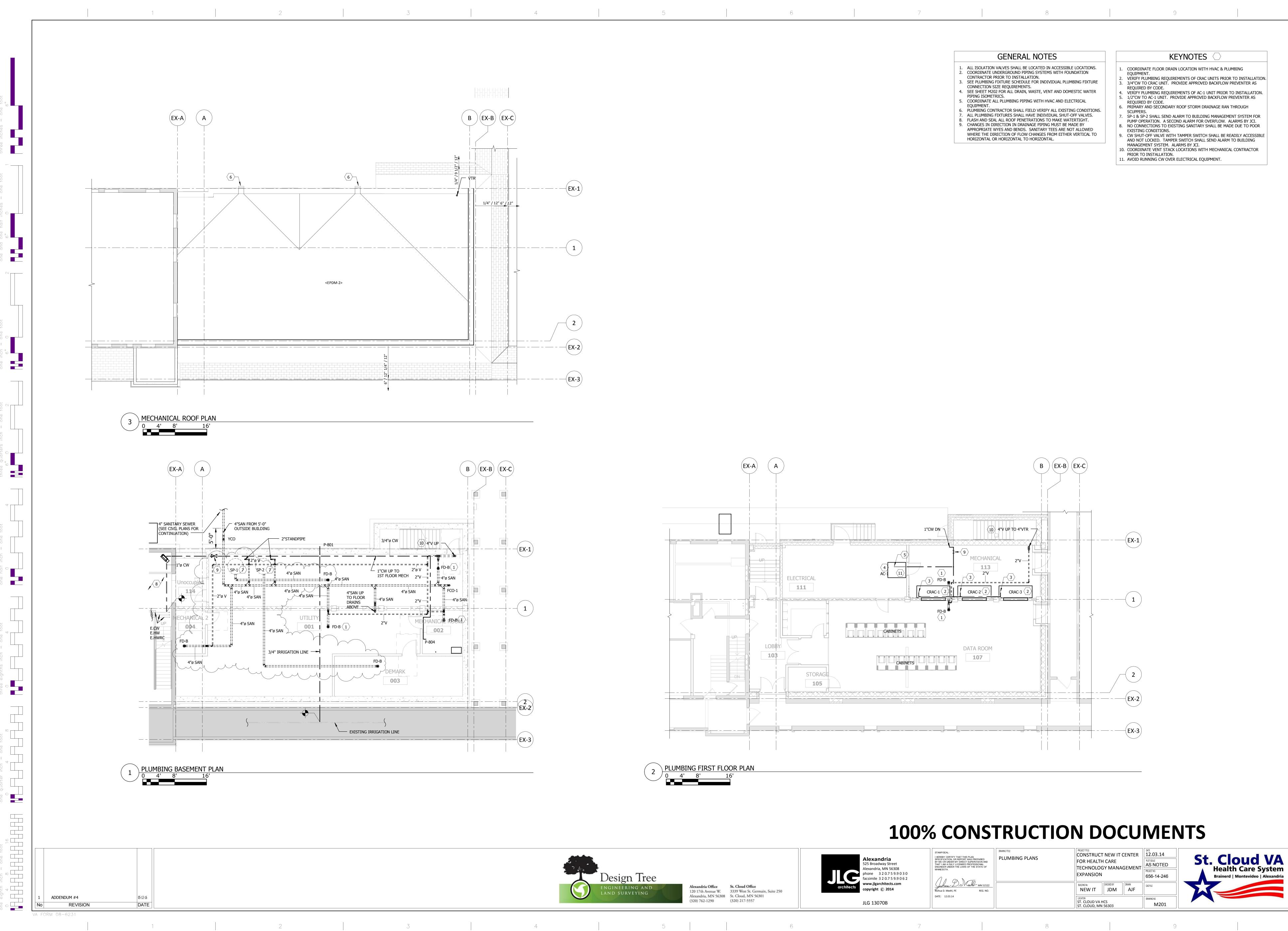
PROJECT NO.
656-13-240 DRAWING TITLE

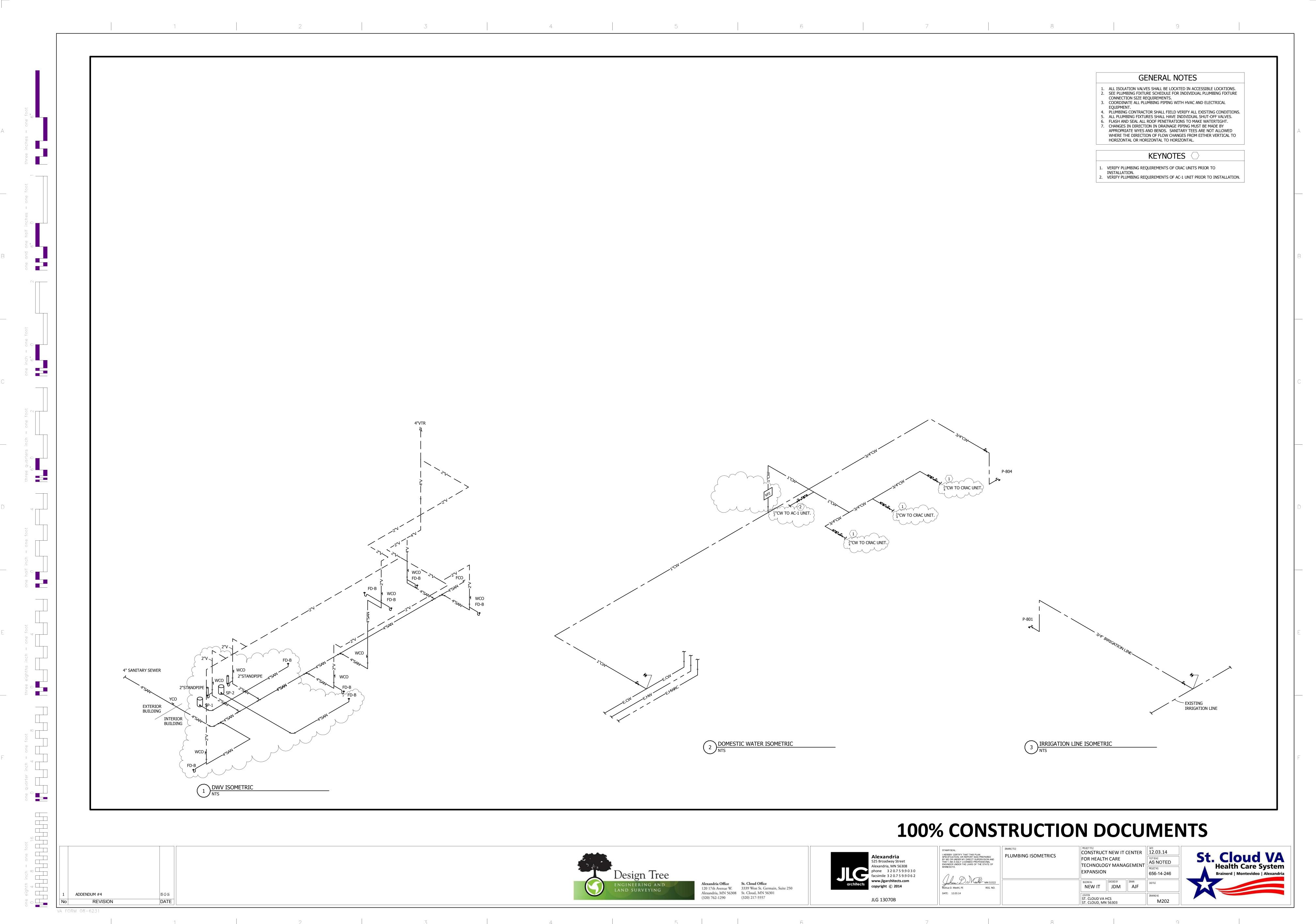
ELECTRICAL SCHEDULES BUILDING NO NEW IT RSB DRAWN ARM

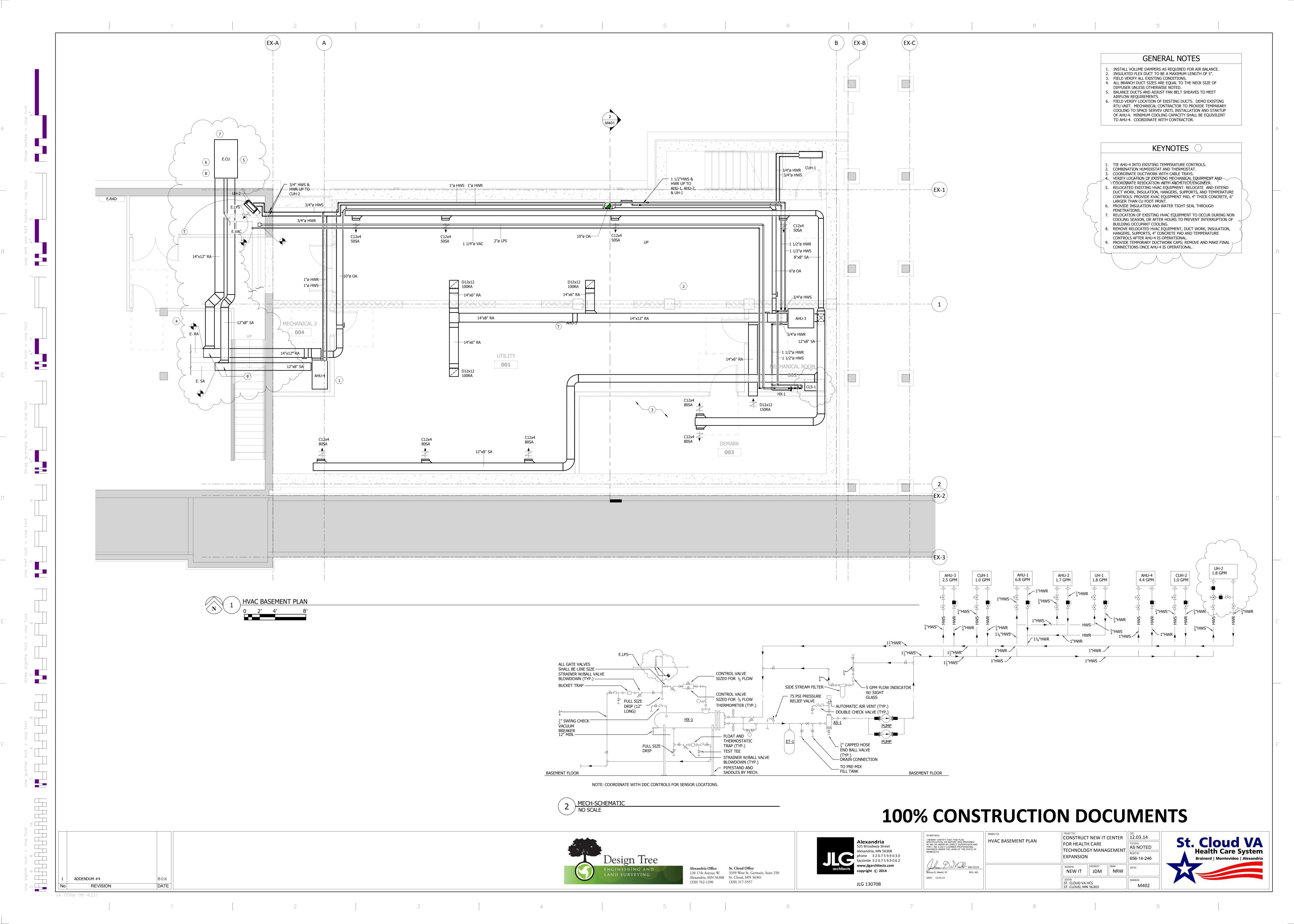
ST. CLOUD VA HCS ST. CLOUD, MN 56303

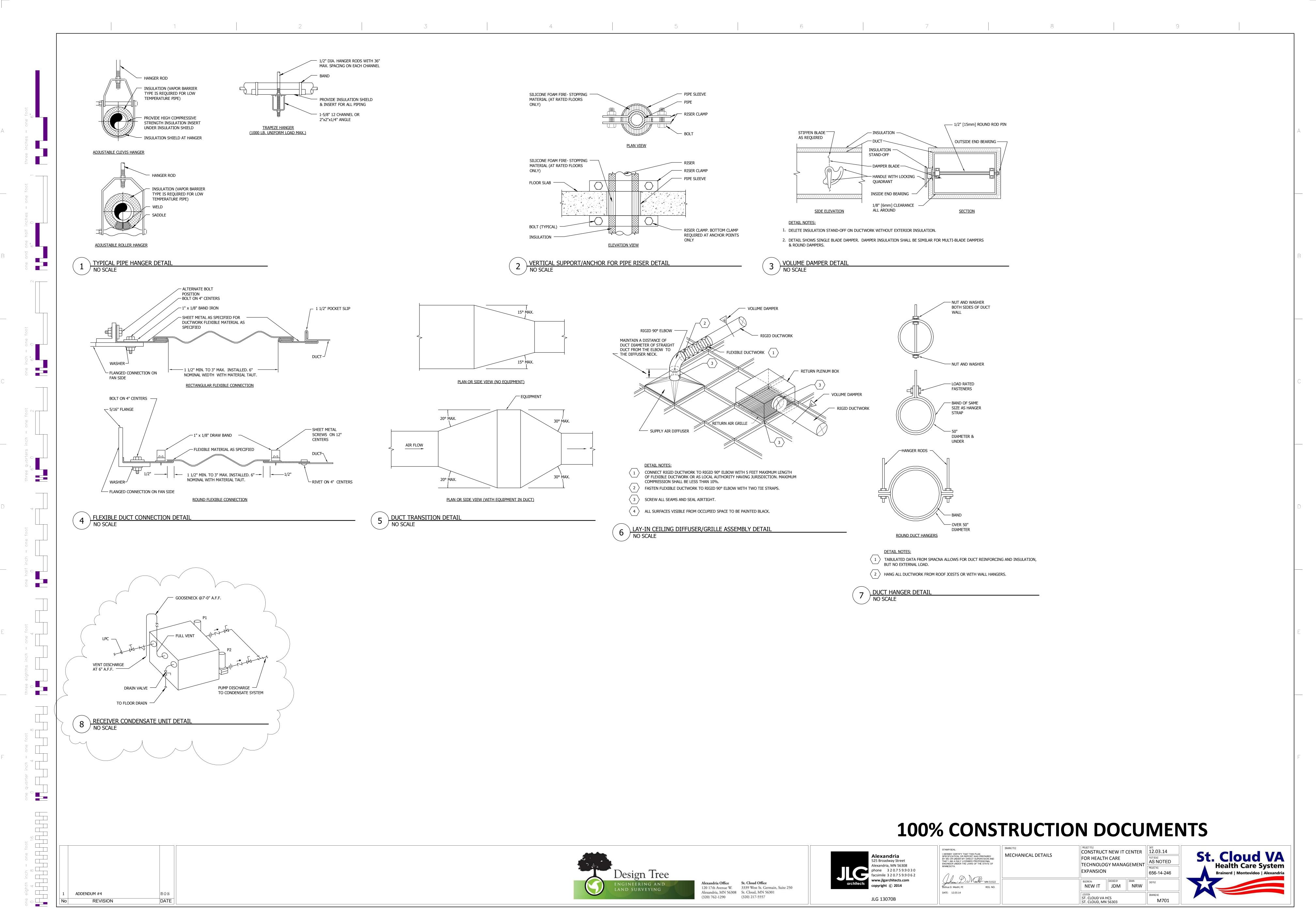










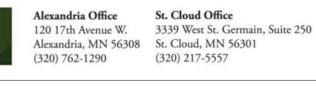


2 5

ADDENDUM #4 05-1
REVISION DA

8 4 6







	STAMP/SEAL:	
	I HEREBY CERTIFY THAT THIS I SPECIFICATION, OR REPORT W BY ME OR UNDER MY DIRECT S THAT I AM A DULY LICENSED PI ENGINEER UNDER THE LAWS O MINNESOTA.	VAS PREPARED SUPERVISION AND ROFESSIONAL
	Joshua D. M.	eehl MN 51522
	Joshua D. Meehl, PE	REG. NO.
	DATE: 12.03.14	

MECHANICAL SCHEDULES

CONSTRUCT NEW IT FOR HEALTH CARE TECHNOLOGY MAN EXPANSION

BUILDING NO NEW IT JDM

CONSTRUCT NEW IT CENTER
FOR HEALTH CARE
TECHNOLOGY MANAGEMENT
EXPANSION

BUILDING NO
NEW IT

LOCATION
ST. CLOULD VA HCS
ST. CLOULD MN 56303

CONSTRUCT NEW IT CENTER
12.03.14

PLOT SCALE
AS NOTED
PROJECT NO.
656-14-246

PROJECT NO.
656-14-246

DRAWING NO.
M801